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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/579,679	02/05/2007	Guy Louis-Georges	7692-44 LAB	5136	
24223 SIM & MCBUI	7590 03/16/201 RNEY	EXAMINER			
330 UNIVERS		BURKHART, MICHAEL D			
6TH FLOOR TORONTO, ON M5G 1R7			ART UNIT	PAPER NUMBER	
CANADA	CANADA			1633	
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			03/16/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
000 4 11 0	10/579,679	LOUIS-GEORGES ET AL.			
Office Action Summary	Examiner	Art Unit			
	MICHAEL BURKHART	1633			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on <u>23 December</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ∠ Claim(s) 1-24 and 28-40 is/are pending in the a 4a) Of the above claim(s) 5,14-18,20-24 and 28 5) ☐ Claim(s) is/are allowed. 6) ∠ Claim(s) 1-4, 6-13 and 19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	3-40 is/are withdrawn from consid	eration.			
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 18 May 2006 is/are: a) Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	☑ accepted or b) ☐ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/14/2007.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

DETAILED ACTION

Applicant's election without traverse of Group I and the species of CT-1 and cardiac disease in the reply filed on 12/23/2010 is acknowledged.

Claims 5, 14-18, 20-24 and 28-40 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions or species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 12/23/2010.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-4, 6-13 and 19 rejected under 35 U.S.C. 102(a) as being anticipated by Guy (WO 02/094862, 11/28/2002).

Guy discloses human skeletal muscle cells comprising a construct comprising either of HIF-1, HIF-2 α (also known as EPASI) or HIF-3. Expression of several genes was induced, including LIF-R. See in particular pages 40-42 and Table 2. Cells were transfected with the vectors (page 40), or adenoviral vectors were also prepared (page 37). The HIF sequences were cloned from pcDNA vectors (page 36) and are considered to comprise cDNA (as opposed to the genomic DNA sequences) absent evidence to the contrary. The induction of CT-1 is considered to be an inherent feature of the expression of HIF-2 α as this is not a step performed by the

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skilled artisan, but rather a direct consequence of HIF-2a expression (a transcription factor). Guy acknowledges that the gene chip used for analysis of the induction of genes by the HIF proteins is limited and may not detect all genes induced (page 41). EPAS1/HIF-2 α was expressed in vivo via direct delivery or transplantation into myocardial cells (pages 39, 42). Improved cardiac function, i.e. improved metabolic activity, was shown.

Conclusion

No claims is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL BURKHART whose telephone number is (571)272-2915. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Burkhart/ Primary Examiner, Art Unit 1633